

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 1, 2003, 17:51:55 ; Search time 26 Seconds

(without alignments)
1712.177 Million cell updates/sec

Title: US-09-782-587B-1

Perfect score: 2187
Sequence: 1 ANAFLXXLRPGLRXKCKX.....LQKMRSEPPVLLRAAPP 406Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 424699 segs, 109646833 residues

Total number of hits satisfying chosen parameters: 424699

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

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13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	2167	99.1	406	9	US-10-109-498-1	Sequence 1, Appl1
2	2167	99.1	406	9	US-09-782-587B-1	Sequence 1, Appl1
3	2167	99.1	406	9	US-09-782-587B-3	Sequence 3, Appl1
4	2167	99.1	406	9	US-10-255-032-1	Sequence 1, Appl1
5	2167	99.1	466	9	US-10-017-122-2	Sequence 1, Appl1
6	2098	95.9	426	9	US-10-295-682-1	Sequence 2, Appl1
7	2098	95.9	426	9	US-09-951-121A-1	Sequence 1, Appl1
8	849	38.8	461	9	US-10-234-406-8	Sequence 8, Appl1
9	849	38.8	461	10	US-09-884-901-3	Sequence 3, Appl1
10	847	38.7	461	9	US-10-132-829-5	Sequence 5, Appl1
11	847	38.7	461	9	US-10-234-406-6	Sequence 6, Appl1
12	845	38.6	415	10	US-09-118-748-2	Sequence 2, Appl1
13	736	33.7	419	9	US-10-182-263-6	Sequence 6, Appl1
14	735	33.6	419	9	US-10-182-263-5	Sequence 5, Appl1
15	730	33.4	419	9	US-10-182-263-3	Sequence 3, Appl1
16	726	33.2	419	9	US-10-182-263-1	Sequence 1, Appl1
17	726	33.2	419	9	US-10-182-263-4	Sequence 4, Appl1
18	726	33.2	419	9	US-09-978-917A-4	Sequence 4, Appl1
19	726	33.2	461	9	US-10-182-263-2	Sequence 2, Appl1

20	726	33.2	461	9	US-09-978-917A-2	Sequence 2, Appl1
21	466.5	21.3	802	9	US-09-978-295A-169	Sequence 169, App
22	466.5	21.3	802	9	US-09-978-697-169	Sequence 169, App
23	466.5	21.3	802	9	US-09-978-192A-169	Sequence 169, App
24	466.5	21.3	802	9	US-09-999-832A-169	Sequence 169, App
25	466.5	21.3	802	9	US-09-978-189-169	Sequence 169, App
26	466.5	21.3	802	9	US-09-978-608A-169	Sequence 169, App
27	466.5	21.3	802	9	US-09-978-191A-169	Sequence 169, App
28	466.5	21.3	802	9	US-09-978-403A-169	Sequence 169, App
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30	466.5	21.3	802	9	US-09-978-585A-169	Sequence 169, App
31	466.5	21.3	802	9	US-10-017-081A-169	Sequence 169, App
32	466.5	21.3	802	9	US-09-978-824A-169	Sequence 169, App
33	466.5	21.3	802	9	US-09-981-915A-169	Sequence 169, App
34	466.5	21.3	802	9	US-09-999-833A-169	Sequence 169, App
35	466.5	21.3	802	9	US-10-167-749A-169	Sequence 169, App
36	466.5	21.3	802	9	US-09-918-585A-169	Sequence 169, App
37	466.5	21.3	802	9	US-09-978-423A-169	Sequence 169, App
38	466.5	21.3	802	9	US-10-013-921A-169	Sequence 169, App
39	466.5	21.3	802	9	US-09-978-193A-169	Sequence 169, App
40	466.5	21.3	802	9	US-10-013-929A-169	Sequence 169, App
41	466.5	21.3	802	9	US-10-016-177A-169	Sequence 169, App
42	466.5	21.3	802	9	US-09-999-830A-169	Sequence 169, App
43	466.5	21.3	802	9	US-09-978-757A-169	Sequence 169, App
44	466.5	21.3	802	9	US-09-978-187B-169	Sequence 169, App
45	466.5	21.3	802	9	US-09-978-643A-169	Sequence 169, App

ALIGNMENTS

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RESULT 1
US-10-109-498-1
; Sequence 1, Application US/10109498
; Publication No. US20030044908A1
; GENERAL INFORMATION:
; APPLICANT: Persson, Egon
; TITLE OF INVENTION: Coagulation Factor VII Derivatives
; FILE REFERENCE: 6286-200-US
; CURRENT APPLICATION NUMBER: US/10/109,498
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 60/281,261
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: PA 2001 00477
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 406
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(406)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-109-498-1

Query Match          99.1%; Score 2167; DB 9; Length 406;
Best Local Similarity 100.0%; Pred. No. 1.2e-151;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANAFLXXLRPGLRXKCKXOCFFXXARXIFPDARTKLFMTSYSDGDCASSPONGS 60
Db 1 ANAFLXXLRPGLRXKCKXOCFFXXARXIFPDARTKLFMTSYSDGDCASSPONGS 60
QY 61 CKDOLQSYICFCLPAFEGNCEHFKDDOLICVNEGCGEYOYCSDBTGTFRSCHEGYSL 120
Db 61 CKDOLQSYICFCLPAFEGNCEHFKDDOLICVNEGCGEYOYCSDBTGTFRSCHEGYSL 120
QY 121 LADGVSCTPTVEYPCGKIPILKRNASKPQGRIVGKVCPCGECWQVLLVNGAQLCGG 180
Db 121 LADGVSCTPTVEYPCGKIPILKRNASKPQGRIVGKVCPCGECWQVLLVNGAQLCGG 180
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QY 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
DB 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
QY 241 HDIALRLHQPVLTDHVPVPLCLPERTSERFLAFVFRSLVSGMQLDRGATALELNVL 300
DB 241 HDIALRLHQPVLTDHVPVPLCLPERTSERFLAFVFRSLVSGMQLDRGATALELNVL 300
QY 301 NVPRMLTODCLOQSKRVDSFNITEYMFACAGYSDGSKDSCGDPATHYRGTYLTLG 360
DB 301 NVPRMLTODCLOQSKRVDSFNITEYMFACAGYSDGSKDSCGDPATHYRGTYLTLG 360
QY 361 IVSMGCGCATVGHFGVTVTRVSQYIEMLOKLMRSEPRPGLLRAPP 406
DB 361 IVSMGCGCATVGHFGVTVTRVSQYIEMLOKLMRSEPRPGLLRAPP 406

RESULT 2
US-09-782-587b-1
: Sequence 1, Application US/09782587B
: Publication No. US20030096338A1
: GENERAL INFORMATION:
: APPLICANT: PEDERSEN, ANDERS H.
: APPLICANT: ANDERSON, KIM V.
: APPLICANT: BORNAES, CLAUD
: TITLE OF INVENTION: FACTOR VII OR VIIA-LIKE MOLECULES
: FILE REFERENCE: 31-001100US
: CURRENT APPLICATION NUMBER: US/09/782,587B
: PRIOR FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: PA 2000 00218
: PRIOR FILING DATE: 2000-02-11
: PRIOR APPLICATION NUMBER: 60/184,036
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: 60/241,916
: PRIOR FILING DATE: 2000-10-18
: NUMBER OF SEQ ID NOS: 19
: SOFTWARE: Patent In Ver. 2.1
: SEQ ID NO 1
: LENGTH: 406
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: MOD.RES
: LOCATION: (6)..(7)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (14)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (16)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (19)..(20)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (25)..(26)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (29)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
: NAME/KEY: MOD.RES
: LOCATION: (35)
: OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
US-09-782-587b-1

Query Match 99.1%; Score 2167; DB 9; Length 406;
Best Local Similarity 100.0%; Pred. No. 1,2e-151;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQCSPPQNGS 60
DB 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQCSPPQNGS 60
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QY 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
DB 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
QY 121 LADGVSCTPYEYPCGKIPILKRNASKPOGRIVGKCPGECQWVLLVNGAQOLCGG 180
DB 121 LADGVSCTPYEYPCGKIPILKRNASKPOGRIVGKCPGECQWVLLVNGAQOLCGG 180
QY 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
DB 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
QY 241 HDIALRLHQPVLTDHVPVPLCLPERTSERFLAFVFRSLVSGMQLDRGATALELNVL 300
DB 241 HDIALRLHQPVLTDHVPVPLCLPERTSERFLAFVFRSLVSGMQLDRGATALELNVL 300
QY 301 NVPRMLTODCLOQSKRVDSFNITEYMFACAGYSDGSKDSCGDPATHYRGTYLTLG 360
DB 301 NVPRMLTODCLOQSKRVDSFNITEYMFACAGYSDGSKDSCGDPATHYRGTYLTLG 360
QY 361 IVSMGCGCATVGHFGVTVTRVSQYIEMLOKLMRSEPRPGLLRAPP 406
DB 361 IVSMGCGCATVGHFGVTVTRVSQYIEMLOKLMRSEPRPGLLRAPP 406
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RESULT 3
US-09-782-587b-3
: Sequence 3, Application US/09782587B
: Publication No. US20030096338A1
: GENERAL INFORMATION:
: APPLICANT: PEDERSEN, ANDERS H.
: APPLICANT: ANDERSON, KIM V.
: APPLICANT: BORNAES, CLAUD
: TITLE OF INVENTION: FACTOR VII OR VIIA-LIKE MOLECULES
: FILE REFERENCE: 31-001100US
: CURRENT APPLICATION NUMBER: US/09/782,587B
: PRIOR FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: PA 2000 00218
: PRIOR FILING DATE: 2000-02-11
: PRIOR APPLICATION NUMBER: 60/184,036
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: 60/241,916
: PRIOR FILING DATE: 2000-10-18
: NUMBER OF SEQ ID NOS: 19
: SOFTWARE: Patent In Ver. 2.1
: SEQ ID NO 3
: LENGTH: 406
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-782-587b-3

Query Match 99.1%; Score 2167; DB 9; Length 406;
Best Local Similarity 97.5%; Pred. No. 1,2e-151;
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQCSPPQNGS 60
DB 1 ANAFLELRPGSLRECKEBCSFEAREIFKDXARTKLFWISYSDGQCSPPQNGS 60
QY 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
DB 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
QY 121 LADGVSCTPYEYPCGKIPILKRNASKPOGRIVGKCPGECQWVLLVNGAQOLCGG 180
DB 121 LADGVSCTPYEYPCGKIPILKRNASKPOGRIVGKCPGECQWVLLVNGAQOLCGG 180
QY 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
DB 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEOSRRVAQYIIPSTVPGTTN 240
QY 241 HDIALRLHQPVLTDHVPVPLCLPERTSERFLAFVFRSLVSGMQLDRGATALELNVL 300
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Db 301 NVPRMTODCLOQSRKVGSDSPNITEYMFCAAGSDGSKDSCGSGPHATHYRGTYLWG 360
QY 361 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 406
Db 361 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 406

RESULT 4
US-10-255-032-1
Sequence 1, Application US/10255032
Publication No. US2003010075A1

GENERAL INFORMATION:
APPLICANT: No. US2003010075A1o No. US2003010075A1disk A/S
TITLE OF INVENTION: HUMAN COAGULATION FACTOR VII POLYPEPTIDES
FILE REFERENCE: 6357-WO
CURRENT APPLICATION NUMBER: US/10/255,032
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: DK PA 2001 01413
PRIOR FILING DATE: 2001-09-27
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 406
TYPE: PRT
ORGANISM: human coagulation Factor VII
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)..(406)
OTHER INFORMATION: Xaa means 4-carboxyglutamic acid (gamma-carboxyglutamate)
US-10-255-032-1

Query Match
Best Local Similarity 99.1%; Score 2167; DB 9; Length 406;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANAFLLXLRPGSLXRXCKXXCFFXXARXIFKDAAXRTKLFWISYSGDDCASSPCONGGS 60
Db 1 ANAFLLXLRPGSLXRXCKXXCFFXXARXIFKDAAXRTKLFWISYSGDDCASSPCONGGS 60
QY 61 CKDQLOSYICFCLPAFEGRNCEHNDQOLICVNEGSCDEQYCSDHGTGRKSCRHGYSYL 120
Db 61 CKDQLOSYICFCLPAFEGRNCEHNDQOLICVNEGSCDEQYCSDHGTGRKSCRHGYSYL 120
QY 121 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPCPCPQVLLVNGAQLCGG 180
Db 121 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPCPCPQVLLVNGAQLCGG 180
QY 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGGTN 240
Db 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGGTN 240
QY 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAFSLVSGMQLDRGATALEMLVL 300
Db 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAFSLVSGMQLDRGATALEMLVL 300
QY 301 NVPRMTODCLOQSRKVGSDSPNITEYMFCAAGSDGSKDSCGSGPHATHYRGTYLWG 360
Db 301 NVPRMTODCLOQSRKVGSDSPNITEYMFCAAGSDGSKDSCGSGPHATHYRGTYLWG 360
QY 361 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 406
Db 361 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 406

RESULT 5
US-10-017-122-2
Sequence 2, Application US/10017122
Publication No. US20030087244A1
GENERAL INFORMATION:

APPLICANT: McCarthy, Jeanette
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
FILE REFERENCE: NMT-007
CURRENT APPLICATION NUMBER: US/10/017,122
CURRENT FILING DATE: 2001-12-14
PRIOR APPLICATION NUMBER: 60/327,487
PRIOR FILING DATE: 2001-10-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 466
TYPE: PRT
ORGANISM: Homo sapiens
US-10-017-122-2

Query Match
Best Local Similarity 99.1%; Score 2167; DB 9; Length 466;
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 61 ANAFLLXLRPGSLXRXCKXXCFFXXARXIFKDAAXRTKLFWISYSGDDCASSPCONGGS 60
QY 61 CKDQLOSYICFCLPAFEGRNCEHNDQOLICVNEGSCDEQYCSDHGTGRKSCRHGYSYL 120
Db 121 CKDQLOSYICFCLPAFEGRNCEHNDQOLICVNEGSCDEQYCSDHGTGRKSCRHGYSYL 120
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Db 181 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPCPCPQVLLVNGAQLCGG 180
QY 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGGTN 240
Db 241 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGGTN 240
QY 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAFSLVSGMQLDRGATALEMLVL 300
Db 301 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAFSLVSGMQLDRGATALEMLVL 300
QY 301 NVPRMTODCLOQSRKVGSDSPNITEYMFCAAGSDGSKDSCGSGPHATHYRGTYLWG 360
Db 361 NVPRMTODCLOQSRKVGSDSPNITEYMFCAAGSDGSKDSCGSGPHATHYRGTYLWG 360
QY 361 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 406
Db 421 IYVSGGCGATVGHFGYVYTRVSOYIEMLOKLMRSEPRGVLLRAPFP 466

RESULT 6
US-10-295-682-1
Sequence 1, Application US/10295682
Publication No. US20030100740A1
GENERAL INFORMATION:
APPLICANT: Olsen, Ole Hvalsted
TITLE OF INVENTION: Human Coagulation Factor VII Variants
FILE REFERENCE: 6224,200-US
CURRENT APPLICATION NUMBER: US/10/295,682
CURRENT FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: PA 2000 01361
PRIOR FILING DATE: 2000-09-13
PRIOR APPLICATION NUMBER: 60/236,455
PRIOR FILING DATE: 2000-09-29
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 426
TYPE: PRT
ORGANISM: Native Human Coagulation Factor VII
US-10-295-682-1

Query Match
Best Local Similarity 95.9%; Score 2098; DB 9; Length 426;
Matches 406; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Matches 394; Conservative 0; Mismatches 12; Indels 20; Gaps 5;

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QY 1 ANAFL-----XXLRPGL-----XRCK-----XXOCSEFXA-----XRIEKDA--XRTKLF 40
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Db 1 ANAFGLAGLALRPGSLAGLARGLACGLAGLACQSLAGLARGLALRGLAIFEDAGLARTKLF 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 41 WISYSDGDOCCASSPCONGSCCKDQLOSYICFCLPAFEGRNCETHKDDOLICVENGSCQ 100
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 WISYSDGDOCCASSPCONGSCCKDQLOSYICFCLPAFEGRNCETHKDDOLICVENGSCQ 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 101 YCSDHTGTRKSCRCHEGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 160
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 YCSDHTGTRKSCRCHEGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 180
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QY 161 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 181 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 221 OSRRVAQVIIPSTYVPGTTHNDIALRLHQPVLVLDHVPLCLPRTFSERTLAFAVPSL 280
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 241 OSRRVAQVIIPSTYVPGTTHNDIALRLHQPVLVLDHVPLCLPRTFSERTLAFAVPSL 300
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 281 VSGMGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAGYSDGSKDSC 340
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Db 301 VSGMGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAGYSDGSKDSC 360
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QY 341 KGDGSGPHATHRGTYLTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMRSEPRGV 400
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Db 361 KGDGSGPHATHRGTYLTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMRSEPRGV 420
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QY 401 LRAFPF 406
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Db 421 LRAFPF 426
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RESULT 7

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US-09-951-121A-1
; Sequence 1, Application US/09951121A
; Publication No. US20030104978A1
; GENERAL INFORMATION:
; APPLICANT: Persson, Egon
; APPLICANT: Olsen, Ole Hvalsted
; TITLE OF INVENTION: Human Coagulation Factor VII Variants
; FILE REFERENCE: 6224.200-US
; CURRENT APPLICATION NUMBER: US/09/951/121A
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PA 2000 01361
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 60/236,455
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Native Human Coagulation Factor VII
US-09-951-121A-1

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Query Match 95.9%; Score 2098; DB 9; Length 426;

Best Local Similarity 92.5%; Pred. No. 1.5e-146;

Matches 394; Conservative 0; Mismatches 12; Indels 20; Gaps 5;

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QY 1 ANAFL-----XXLRPGL-----XRCK-----XXOCSEFXA-----XRIEKDA--XRTKLF 40
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 ANAFGLAGLALRPGSLAGLARGLACGLAGLACQSLAGLARGLALRGLAIFEDAGLARTKLF 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 41 WISYSDGDOCCASSPCONGSCCKDQLOSYICFCLPAFEGRNCETHKDDOLICVENGSCQ 100
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 WISYSDGDOCCASSPCONGSCCKDQLOSYICFCLPAFEGRNCETHKDDOLICVENGSCQ 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 101 YCSDHTGTRKSCRCHEGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 160
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 YCSDHTGTRKSCRCHEGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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QY 161 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 181 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 221 OSRRVAQVIIPSTYVPGTTHNDIALRLHQPVLVLDHVPLCLPRTFSERTLAFAVPSL 280
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 241 OSRRVAQVIIPSTYVPGTTHNDIALRLHQPVLVLDHVPLCLPRTFSERTLAFAVPSL 300
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 281 VSGMGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAGYSDGSKDSC 340
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 301 VSGMGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAGYSDGSKDSC 360
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 341 KGDGSGPHATHRGTYLTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMRSEPRGV 400
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 361 KGDGSGPHATHRGTYLTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMRSEPRGV 420
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 401 LRAFPF 406
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Db 421 LRAFPF 426
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RESULT 8

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US-10-234-406-8
; Sequence 8, Application US/10234406
; Publication No. US20030109478A1
; GENERAL INFORMATION:
; APPLICANT: FEWEL, Jason G.
; APPLICANT: MACLAUGHLIN, Fiona
; APPLICANT: SMITH, Louis C.
; APPLICANT: NICOL, Francois
; APPLICANT: ROLAND, Alain
; TITLE OF INVENTION: NUCLEIC ACID FORMULATIONS FOR GENE DELIVERY AND METHODS OF USE
; FILE REFERENCE: 54964.8303.US01
; CURRENT APPLICATION NUMBER: US/10/234/406
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US 60/187,236
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: US 60/261,751
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: PCT/US01/06953
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Expression plasmid pFN1645 having codon optimized sequence enc
US-10-234-406-8

```

Query Match 38.8%; Score 849; DB 9; Length 461;

Best Local Similarity 38.9%; Pred. No. 8.8e-55;

Matches 161; Conservative 71; Mismatches 132; Indels 50; Gaps 7;

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QY 11 GSIXRCKXXOCSEFXAXRIFKDAKRTLFWISYSDGDOCCASSPCONGSCCKDQLOSYIC 70
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 58 GNLEECHEBCKCSFEAEVEFENTERTTEFKQIYDGDCCSNPLNGSCCKDDINSTEC 117
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 71 FCLPAFEGRNCETHKDDOLICVENGSCQYSCDHTGTRKSCRCHEGYSLLADGVSCTPT 130
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 118 WCPFEFEGKCNEL---DVTCKIKNGRCDFCKNSADKKVYCSCTEGYRLAENOKSCPEA 173
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 131 VEYPCCKIPLEKRNASKPOG-----RIVGKVC 159
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 174 VPFPGGRVSVQTSKTRAEAVFPDVPDVNSTEATITLNDITOSTOSFNFDFRGGGDA 233
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 160 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 219
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 234 KGECPMOVLLVNGAOLCGGTLINTIWWVSAACFPKIKMWRNLIAVLGEHDSSEHDGE 290
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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QY 220 EGSRRAAOVYIPSTYVPGT--NHDIALLRHOPVYLTDHVPILCPERTFFSERTIAFQR 277
 291 EQRNRVIRIRPHNNYNAALIKYNNHDIALLDELPILNSVYPTICADK--EYTNIFLK 347
 QY 278 F--SLVSGMGQLDRGATALEMLVNLVNPRLMTODCCOOSRKVDSPNIEVNFCAQSDG 335
 348 FCGSGYSGMGKRVYFHKRSALVLOYLVNPLVDRTCLKSTK-----TTNNHNCAGFHEG 402
 Db 336 SKDCKGDSGPHATHYRGTWYLTGLIVSGGCGCATYGHFGVYTRVSYIEMFK 389
 403 GRDSCGDSGGRPHYTEVEGTSFLTLGIISMGEECAMKGTGTTKYSRYIWNWKE 456

RESULT 5

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US-09-884-901.3
Sequence 3, Application US/09884901
Patent No. US20020076798A1
GENERAL INFORMATION:
APPLICANT: Mao, Carol
APPLICANT: Kay, Mark
TITLE OF INVENTION: Liver-Specific Gene Expression Cassettes, and Methods of Use
FILE REFERENCE: WO/97-1-17396
CURRENT APPLICATION NUMBER: US/09/884,901
CURRENT FILING DATE: 2001-06-18
PRIOR APPLICATION NUMBER: US 60/212,902
PRIOR FILING DATE: 2000-06-20
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3
LENGTH: 461
TYPE: PRT
ORGANISM: Homosapien
US-09-884-901.3

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Query Match

Best Local Similarity 38.3%; Pred. No. 8.8e-55;
Matches 161; Conservative 71; Mismatches 132; Indels 50; Gaps 7

[illegible]

RESULT 10
US-10-132-829-5

; sequence 5, Application US/10132829
 ; Publication No. US20030044982A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Chlen, Kenneth R

```

:
: APPLICANT: Hoshijima, Masahiko
: TITLE OF INVENTION: Method to treat hemophilia by hepatic gene transfer of Factor
: TITLE OF INVENTION: with vesicle vector
: FILE REFERENCE: 6627-Pall70
: CURRENT APPLICATION NUMBER: US/10/132,829
: CURRENT FILING DATE: 2002-04-25
: PRIOR APPLICATION NUMBER: 60/286,314
: PRIOR FILING DATE: 2001-04-25
: NUMBER OF SEQ ID NOS: 5
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 5
:
: LENGTH: 461
: TYPE: PRT
:
: ORGANISM: Homo sapiens
:
: US-10-132-829-5

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Query Match

psst local similarity 38.9%; Pred. NO. 1.4e-54;
Matches 161; Conservative 71; Mismatches 132; Indels 50; Gaps 7

[illegible]

RESULT 11

US-10-234-406-6
Sequence 6, Application US/10234406
Publication No. US20030109478A1
GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: FEWEL, JASON G.

APPLICANT: MACLAUGHLIN, Fiona

APPLICANT: SMITH, Louis C.

APPLICANT: NICOL, Francois

APPLICANT: ROLLAND, Alain

1. TITLE OF INVENTION: NUCLEIC AC

THE INVENTION: NOVELTY AND
PRIORITY: E4064 9303 US0

FILE REFERENCE: 34904.8303.050

CURRENT APPLICATION NUMBER: US

CURRENT FILING DATE: 2002-09-

;
PRIOR APPLICATION NUMBER: US 6

PRIOR FILING DATE: 2000-03-03

PRIOR APPLICATION NUMBER: US 6

PRIOR FILING DATE: 2001-01-16

PRIOB ADDITION NUMBER: OCT 4

PRIOR APPLICATION NUMBER: PCI/

PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 8 .

; SOFTWARE: PatentIn version 3.1

: SEO ID NO 6

LENGTH: 461

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OY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKIMRSE 394
DB 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNYGYTVSRYLDIMHIGHIRDK 410
OY 395 PRP 397
DB 411 EAP 413

RESULT 14
US-10-182-263-5
; Sequence 5, Application US/10182263
; Publication No. US20030022354A1
; GENERAL INFORMATION:
; APPLICANT: Gerlitz, Bruce E
; APPLICANT: Jones, Bryan E
; APPLICANT: Grinnell, Brian W
; TITLE OF INVENTION: PROTEIN C DERIVATIVES
; FILE REFERENCE: X-13611
; CURRENT APPLICATION NUMBER: US/10/182,263
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: 60/181948
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: 60/189199
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 419
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-182-263-5

Query Match
Best Local Similarity 33.6%; Score 735; DB 9; Length 419;
Matches 157; Conservative 74; Mismatches 156; Indels 36; Gaps 10;

OY 1 ANAFLLXLRPGSLXRXCKXQCSFXXARXIFKDXARTKFLWISYSDGDC-----AS 52
DB 1 ANSFLEELRHGSLEREIEICDFEERKEIFEVDVDTLAFWSKHVGDGCVLPLEHPCA 60
OY 53 SPONGGSCKDQLOSYICFCLPAFEGNCTHKKDOLICVNGGCGOYCSDHGTGRSC 112
DB 61 SLCCGHGTCIDIGISFSCDCRSWEGRFQ-REVSFLNCSLDNGGCTHYCLEEVGMRR-C 118
OY 113 RCHGYSILADGVSCPTVEYPCGK-IPLEKRNASKPQG-----RIYGVKCPK 161
DB 119 SCAPGYKLGDLLQCHPAVAFPCGPRPKRMEKRSHLKRDTEDEDOVPRLLIKGMTRR 178
OY 162 GECPMOVLLLVNGAO-L-CGGTLINTIWWVSAHCFDKIKMNRNLIAVLGEHDLSEHDGE 220
DB 179 GDSFMQVLLDSSKKSLAGAVLIHPSVNLRAHCHMDSK---KLVLRLGEYDLRRMEKWE 235
OY 221 QSRRAVAVIIPSTYVPGTTHNDIALRLHOPVVLTDHVPVLCLEPRTFSEETLAFV-RFS 279
DB 236 LDLDIKREVFNHPSKSTNDIDIALHLAOPATLSQTIIVPICLPDSGLAERELNOAQOET 295
OY 280 LVSGWGLLDRGATA-----LELMVNLVPRMLTODCLQOSRKVGDSPNITEYFCAGYSD 334
DB 296 LVTGMGYHSSREKEAKRNRTFVLNFIKIPVVPNHCESEVM-----SNVSENMICAGILG 350
OY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKIMRSE 394
DB 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNYGYTVSRYLDIMHIGHIRDK 410
OY 395 PRP 397
DB 411 EAP 413

RESULT 15
US-10-182-263-3
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```
; Sequence 3, Application US/10182263
; Publication No. US20030022354A1
; GENERAL INFORMATION:
; APPLICANT: Gerlitz, Bruce E
; APPLICANT: Jones, Bryan E
; APPLICANT: Grinnell, Brian W
; TITLE OF INVENTION: PROTEIN C DERIVATIVES
; FILE REFERENCE: X-13611
; CURRENT APPLICATION NUMBER: US/10/182,263
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: 60/181948
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: 60/189199
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 419
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-182-263-3
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Query Match
Best Local Similarity 33.4%; Score 730; DB 9; Length 419;
Matches 156; Conservative 74; Mismatches 157; Indels 36; Gaps 10;

OY 1 ANAFLLXLRPGSLXRXCKXQCSFXXARXIFKDXARTKFLWISYSDGDC-----AS 52
DB 1 ANSFLEELRHGSLEREIEICDFEERKEIFEVDVDTLAFWSKHVGDGCVLPLEHPCA 60
OY 53 SPONGGSCKDQLOSYICFCLPAFEGNCTHKKDOLICVNGGCGOYCSDHGTGRSC 112
DB 61 SLCCGHGTCIDIGISFSCDCRSWEGRFQ-REVSFLNCSLDNGGCTHYCLEEVGMRR-C 118
OY 113 RCHGYSILADGVSCPTVEYPCGK-IPLEKRNASKPQG-----RIYGVKCPK 161
DB 119 SCAPGYKLGDLLQCHPAVAFPCGPRPKRMEKRSHLKRDTEDEDOVPRLLIKGMTRR 178
OY 162 GECPMOVLLLVNGAO-L-CGGTLINTIWWVSAHCFDKIKMNRNLIAVLGEHDLSEHDGE 220
DB 179 GDSFMQVLLDSSKKSLAGAVLIHPSVNLRAHCHMDSK---KLVLRLGEYDLRRMEKWE 235
OY 221 QSRRAVAVIIPSTYVPGTTHNDIALRLHOPVVLTDHVPVLCLEPRTFSEETLAFV-RFS 279
DB 236 LDLDIKREVFNHPSKSTNDIDIALHLAOPATLSQTIIVPICLPDSGLAERELNOAQOET 295
OY 280 LVSGWGLLDRGATA-----LELMVNLVPRMLTODCLQOSRKVGDSPNITEYFCAGYSD 334
DB 296 LVTGMGYHSSREKEAKRNRTFVLNFIKIPVVPNHCESEVM-----SNVSENMICAGILG 350
OY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKIMRSE 394
DB 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNYGYTVSRYLDIMHIGHIRDK 410
OY 395 PRP 397
DB 411 EAP 413
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Search completed: July 1, 2003, 17:55:40
Job time : 28 secs